

space, which cannot be reached by any one of the media. This space is provided with a leakage vent. The leakage vent is arranged in such a way that the medium flowing through the connection flows around the hole via the grooves. Thus, this medium does not "see" the hole. Nor can the other medium, flowing in the surrounding channels, reach the hole, due to the separation groove. The leakage vent can only be reached by medium if the brazing around the connection, or at the separation groove, breaks.--

Page 5, please delete the paragraph at lines 3-12, and insert the following new paragraph:

--It will be understood that the invention depicted in the drawings and the description may be varied in several ways. The number of leakage holes 2, 7 may be higher than one in each separation zone. It is to be understood that the holes must be located in rotational symmetry, as every other plate is turned 180°. In the drawing, the holes are shown located at an angle of 45°, centered between the edges of the plates, but it is possible to locate the holes close to an edge. Arranging the holes closer to the edge may in certain cases make them more easily accessible. A person skilled in the art will furthermore understand that different types of sensors and their connections to the separation zones are possible. All such possibilities are considered to be within the scope of the invention.--

#### IN THE CLAIMS

Please amend claims 1-20 as shown in the attachment. A complete set of claims in clean form is shown below.

1. (Once Amended) A heat exchanger comprising:

plates having a pattern of grooves, and inlet and outlet connections, placed so as to